# **Refine Search**

# Search Results -

Terms	Documents
L4 and frequenc\$4 and differ\$5	12

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database

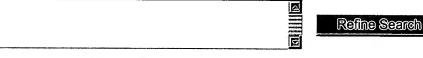
Database:

EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index

IBM Technical Disclosure Bulletins

Search:

L5









# **Search History**

DATE: Monday, October 25, 2004 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
•	PB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=N	VO; OP=OR	result set
<u>L5</u>	L4 and frequenc\$4 and differ\$5	12	<u>L5</u>
<u>L4</u>	L1 and oscillat\$4 same neuro\$10 and computer	15	<u>L4</u>
<u>L3</u>	L1 and oscillat\$4 near neuro\$10 and computer	1	<u>L3</u>
<u>L2</u>	L1 and oscillat\$4 near neuro\$10	2	<u>L2</u>
<u>L1</u>	706/25-27.ccls.	1031	<u>L1</u>

END OF SEARCH HISTORY

# **Hit List**

Clear Generate Collection Print Fwd Refs Bkwd Refs
Generate OACS

**Search Results** - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 5864693 A

Using default format because multiple data bases are involved.

L2: Entry 1 of 2

File: USPT

Jan 26, 1999

US-PAT-NO: 5864693

DOCUMENT-IDENTIFIER: US 5864693 A

TITLE: Movement control method and chaotic information processing unit using

chaotic neural network, and group movement control method

DATE-ISSUED: January 26, 1999

**INVENTOR-INFORMATION:** 

NAME

CITY

STATE

ZIP CODE

COUNTRY

Sawamura; Tsuguo

Chigasaki

JP

US-CL-CURRENT: 700/246; 706/23, 706/26, 708/522

Full Title Citation Front Review Classification Date Reference Section 5. Citation Claims KMC Draw. De

☐ 2. Document ID: US 4926064 A

L2: Entry 2 of 2

File: USPT

May 15, 1990

US-PAT-NO: 4926064

DOCUMENT-IDENTIFIER: US 4926064 A

TITLE: Sleep refreshed memory for neural network

DATE-ISSUED: May 15, 1990

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Tapang; Carlos C.

Portland

OR

US-CL-CURRENT: 706/26; 326/35, 706/25, 706/30, 706/38, 708/801

Full Title Citation Front Review Classification Date Reference Segments Claims KMC Draw, De Clear, Generate Collection Print Fwd Refs Bkwd Refs Generate OACS

Terms	Documents
L1 and oscillat\$4 near neuro\$10	2

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**Search Results -** Record(s) 1 through 12 of 12 returned.

☐ 1. Document ID: US 6397201 B1

Using default format because multiple data bases are involved.

L5: Entry 1 of 12

File: USPT

May 28, 2002

US-PAT-NO: 6397201

DOCUMENT-IDENTIFIER: US 6397201 B1

TITLE: E-cell (equivalent cell) and the basic circuit modules of e-circuits: e-cell

pair totem, the basic memory circuit and association extension

DATE-ISSUED: May 28, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Arathorn; David W.

Oakland

CA

94618

US-CL-CURRENT: 706/33; 706/26, 706/40, 706/42

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWIC Draw. De

□ 2. Document ID: US 6363369 B1

L5: Entry 2 of 12

File: USPT

Mar 26, 2002

US-PAT-NO: 6363369

DOCUMENT-IDENTIFIER: US 6363369 B1

\*\* See image for Certificate of Correction \*\*

TITLE: Dynamic synapse for signal processing in neural networks

DATE-ISSUED: March 26, 2002

 ${\tt INVENTOR-INFORMATION:}$ 

Berger; Theodore W.

NAME

CITY

STATE ZIP CODE

COUNTRY

Liaw; Jim-Shih

Los Angeles
Los Angeles

CA CA

US-CL-CURRENT: 706/15; 706/16, 706/26

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. De

☐ 3. Document ID: US 6269354 B1

L5: Entry 3 of 12

File: USPT

Jul 31, 2001

US-PAT-NO: 6269354

DOCUMENT-IDENTIFIER: US 6269354 B1

TITLE: General purpose recognition e-circuits capable of translation-tolerant recognition, scene segmentation and attention shift, and their application to machine vision

DATE-ISSUED: July 31, 2001

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Arathorn; David W.

Oakland

CA

94618

US-CL-CURRENT: 706/27; 706/38

Full Title Citation Front Review Classification Date Reference **Sequences Attachinents** Claims KMC Draw. De

☐ 4. Document ID: US 5553195 A

L5: Entry 4 of 12

File: USPT

Sep 3, 1996

US-PAT-NO: 5553195

DOCUMENT-IDENTIFIER: US 5553195 A

TITLE: Dynamic neural net

DATE-ISSUED: September 3, 1996

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Meijer; Peter B. L.

Eindhoven

NL

US-CL-CURRENT: 706/31; 706/25

Full Title Citation Front Review Classification Date Reference **Sequences Attachments** Claims KMIC Draw. De

☐ 5. Document ID: US 5515477 A

L5: Entry 5 of 12

File: USPT

May 7, 1996

US-PAT-NO: 5515477

DOCUMENT-IDENTIFIER: US 5515477 A

TITLE: Neural networks

DATE-ISSUED: May 7, 1996

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE COUNTRY

Sutherland; John

Hamilton, Ontario

CA

US-CL-CURRENT: 706/41; 128/925, 706/16, 706/27

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw D.

☐ 6. Document ID: US 5446828 A

L5: Entry 6 of 12

File: USPT

Aug 29, 1995

US-PAT-NO: 5446828

DOCUMENT-IDENTIFIER: US 5446828 A

TITLE: Nonlinear neural network oscillator

DATE-ISSUED: August 29, 1995

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

Woodall; Roger L.

Jewett City

CT

US-CL-CURRENT: 706/25; 706/16, 706/26

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

☐ 7. Document ID: US 5214745 A

L5: Entry 7 of 12

File: USPT

May 25, 1993

US-PAT-NO: 5214745

DOCUMENT-IDENTIFIER: US 5214745 A

TITLE: Artificial neural device utilizing phase orientation in the complex number

domain to encode and decode stimulus response patterns

DATE-ISSUED: May 25, 1993

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

ZIP CODE

COUNTRY

Sutherland; John G.

Hamilton, Ontario

CA

US-CL-CURRENT: 706/17; 706/25, 706/26

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

□ 8. Document ID: US 5148514 A

Record List Display Page 4 of 6

L5: Entry 8 of 12

File: USPT

Sep 15, 1992

US-PAT-NO: 5148514

DOCUMENT-IDENTIFIER: US 5148514 A

TITLE: Neural network integrated circuit device having self-organizing function

DATE-ISSUED: September 15, 1992

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Arima; Yutaka Hyogo JP
Tomioka; Ichiro Hyogo JP
Hanibuchi; Toshiaki Hyogo JP

US-CL-CURRENT: 706/34; 706/25, 708/801

Full Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMO	Draw, De

☐ 9. Document ID: US 5136687 A

L5: Entry 9 of 12 File: USPT Aug 4, 1992

US-PAT-NO: 5136687

DOCUMENT-IDENTIFIER: US 5136687 A

TITLE: Categorization automata employing neuronal group selection with reentry

DATE-ISSUED: August 4, 1992

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Edelman; Gerald M. New York NY 10028 Reeke, Jr.; George N. New York NY 10021

US-CL-CURRENT: <u>706/20</u>; <u>706/15</u>, <u>706/25</u>, <u>706/28</u>

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMO	Draw, De

☐ 10. Document ID: US 5067095 A

L5: Entry 10 of 12 File: USPT Nov 19, 1991

US-PAT-NO: 5067095

DOCUMENT-IDENTIFIER: US 5067095 A

TITLE: SPANN: Sequence processing artificial neural network

DATE-ISSUED: November 19, 1991

Record List Display Page 5 of 6

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Peterson; William M. Scottsdale AZ
Anderson; Howard C. Tempe AZ
Leivian; Robert Chandler AZ
Garrison; Sidney C. Tempe AZ

US-CL-CURRENT: 706/33; 706/20, 706/25, 706/28



☐ 11. Document ID: US 4926064 A

L5: Entry 11 of 12 File: USPT May 15, 1990

US-PAT-NO: 4926064

DOCUMENT-IDENTIFIER: US 4926064 A

TITLE: Sleep refreshed memory for neural network

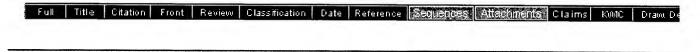
DATE-ISSUED: May 15, 1990

INVENTOR - INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Tapang; Carlos C. Portland OR

US-CL-CURRENT: 706/26; 326/35, 706/25, 706/30, 706/38, 708/801



☐ 12. Document ID: US 3273125 A

L5: Entry 12 of 12 File: USOC Sep 13, 1966

US-PAT-NO: 3273125

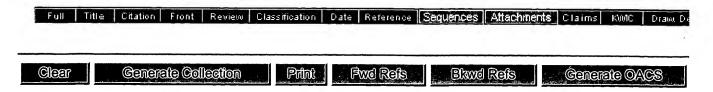
DOCUMENT-IDENTIFIER: US 3273125 A

TITLE: Self-adapting neuron

DATE-ISSUED: September 13, 1966

INVENTOR-NAME: JAKOWATZ CHARLES V

US-CL-CURRENT: 706/14; 327/361, 706/25, 706/27, 706/38



Terms	Documents
L4 and frequenc\$4 and differ\$5	12

Display Format: - Change Format

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# **Refine Search**

# Search Results -

Terms	Documents
neurocomputer and oscillators	2

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

Database:

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de by sid	e		result set
DB=P	GPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR		
<u>L12</u>	neurocomputer and oscillators	2	<u>L12</u>
<u>L11</u>	neurocomputer and oscillators and rhythmic and external	0	<u>L11</u>
<u>L10</u>	neurocomputer and oscillators and rythmic and external	0	<u>L10</u>
<u>L9</u>	oscillat\$5 adj neurocomputer	0	<u>L9</u>
<u>L8</u>	oscillatory adj neurocomputer	0	<u>L8</u>
<u>L7</u>	L6 and rythmic and external	1	<u>L7</u>
<u>L6</u>	oscillat\$4 same neuro\$10 and computer and frequenc\$4 and differ\$5	233	<u>L6</u>
<u>L5</u>	L4 and frequenc\$4 and differ\$5	12	<u>L5</u>
<u>L4</u>	L1 and oscillat\$4 same neuro\$10 and computer	15	<u>L4</u>
<u>L3</u>	L1 and oscillat\$4 near neuro\$10 and computer	1	<u>L3</u>
<u>L2</u>	L1 and oscillat\$4 near neuro\$10	2	<u>L2</u>
<u>L1</u>	706/25-27.ccls.	1031	<u>L1</u>

# **END OF SEARCH HISTORY**

# **Hit List**

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**Search Results** - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 5613039 A

Using default format because multiple data bases are involved.

L12: Entry 1 of 2

File: USPT

Mar 18, 1997

US-PAT-NO: 5613039

DOCUMENT-IDENTIFIER: US 5613039 A

TITLE: Apparatus and method for motion detection and tracking of objects in a region for collision avoidance utilizing a real-time adaptive probabilistic neural network

DATE-ISSUED: March 18, 1997

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Wang; C. David

Melville

NY

Thompson; James P.

Greenlawn

NY

US-CL-CURRENT: 706/24; 342/70, 706/10, 706/28, 706/31

Full Title Citation Front Review Classification Date Reference **Sequences Attachments** Claims KWC Draw. De

☐ 2. Document ID: US 5214745 A

L12: Entry 2 of 2

File: USPT

May 25, 1993

US-PAT-NO: 5214745

DOCUMENT-IDENTIFIER: US 5214745 A

TITLE: Artificial neural device utilizing phase orientation in the complex number domain to encode and decode stimulus response patterns

DATE-ISSUED: May 25, 1993

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Sutherland; John G.

Hamilton, Ontario

CA

US-CL-CURRENT: <u>706/17</u>; <u>706/25</u>, <u>706/26</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWIC Draw, De

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Monday, October 25, 2004

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**DTIC STINET** 

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**EEDD Submission Form** 

Examiners' Electronic Digest Database (EEDD)

(Database of examiner submitted NPL)

**EPOQUE** 

(EPO's databases, available on stand-alone terminal in CPK2, 4B40)

GrayLIT Network

(Multidisciplinary database of scientific and technical information from DTIC, NASA, DOE, and EPA)

(Full page images of over 800,000 Electrical & Electronic Engineering articles, papers and standards, 1988 - present. Select content is available from 1952-1987.)

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(Seven million well-indexed physics, EE, and IT abstracts, 1969-present)

IP.com

(Defensive disclosures published to the Disclosures IP.com database from various websites)

NTIS (National Technical Information Service)

(resource for government-funded scientific, technical, engineering, and business related information)

**Proquest Direct** 

(Multidisciplinary subject coverage)

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(citations to popular multidisciplinary magazines)

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(Published monthly as a paper journal and now as an online database product with advanced full text searching capabilities for defensive disclosure information.)

#### ScienceDirect

(scientific, technical, and medical journals)

Software Patent Institute (SPI) (Select "Free Access")

(Searchable database of Software Technologies.)

# SPIE Digital Library

(journals and proceedings on optics and photonics)

STN on the Web (training and password required)

(The other link is via the Patent Examiner's Toolkit. On your computer, click on the START button, then on the PE Toolkit, then on STN Express.)

## **True Query**

(A resurrected version of the old "Computer Select" database, providing full text access to over 100 technology focused publications, a glossary of technical terms, product reviews and over 60,000 product specifications from 1999 to the present. If html code appears on your screen, click browser's "Reload" or "Refresh" button.)

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(Information security)

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(Applied science and engineering)

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(Multidisciplinary subject coverage)

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(biotech, physics, and computer journals)

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(Several versions of Roget's Thesaurus, a dictionary, an encyclopedia, quotations, English usage books and more.)

## Computer References

(Dictionaries, Acronyms Finders, Encyclopedias)

### **Efunda**

(30,000 pages of engineering fundamentals and calculators)

# Encyclopedia Britannica

**Encyclopedia of Software Engineering** 

# Eric Weisstein's World of Mathematics

(A comprehensive online encyclopedia of mathematics.)

#### **HowStuffWorks**

(Search a term to find articles that explain how it works.)

#### The Internet Encyclopedia

Over 2000 Glossary Links

(Links to numerous technical, specialty, and general glossaries.)

**PCWebopedia** 

Wiley Encyclopedia of Electrical and Electronics Engineering

Yourdictionary.com

(Numerous "specialty dictionaries"... technological, law, business related and more.)

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## CiteSeer (ResearchIndex)

(Full text scientific research papers - in pdf and postscript formats.)

Interfacebus.com

(Listing of Electronic Interface Buses with links to standards and specifications.)

Internet Engineering Task Force

(The IETF Secretariat, run by The Corporation for National Research Initiatives with funding from the US government, maintains an index of Internet-Drafts.)

Nanotechnology

PCI Specifications (username: uspto; password: pat222)

("Peripheral Component Interconnect" specifications and white papers.)

Requests for Comments (RFCs) Database

(Requests for Comments (RFC) document series is a set of technical and organizational notes about the Internet (originally the ARPANET), beginning in 1969 and discussing many aspects of computer networking, including protocols, procedures and concepts as well as meeting notes and opinions.)

- **⇒** Usenet Archive (Google Groups)
- Wayback Machine

(Archived web pages.)

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